## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS, | :D NO. | DATE     |
|---------------------------|-----------|--------|----------|
|                           | :1.5      |        |          |
| FEE DETERMINATION         | 36        |        | 8-48-01  |
| O.I.P.E. CLASSIFIER       |           | 49     | 9/1/9/   |
| FORMALITY REVIEW          | 5.A0      | 1082   | 10/86/60 |
| RESPONSE FORMALITY REVIEW | 7         | 1027   | 11-15-0) |
|                           |           |        |          |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | ı | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| <del></del>  |         |         |   |          |         |          |   |          | ••••     | Nestricted V |         |            |                 |          |          |          |             |  |  |            |            |                   |          |          |          |              |      |            |              |  |  |  |              |  |          |              |         |
|--------------|---------|---------|---|----------|---------|----------|---|----------|----------|--------------|---------|------------|-----------------|----------|----------|----------|-------------|--|--|------------|------------|-------------------|----------|----------|----------|--------------|------|------------|--------------|--|--|--|--------------|--|----------|--------------|---------|
| Claim        |         |         |   |          |         |          |   |          |          |              | Cla     | im         | Date Claim Date |          |          |          |             |  |  |            |            |                   |          |          |          | е            |      | _          |              | _  |  |  |              |  |          |              |         |
| Final        | 2       | 4       |   |          |         |          |   |          |          |              |         |            |                 | Finat    | Original |          |             |  |  |            |            |                   |          |          |          | 1            | Lina | Original   | ,            |  |  |  |              | ,  |          |              |         |
| To           | 7       | ۷       |   | Г        | 1       | T        |   |          |          |              |         |            | ]               |          | 51       |          |             |  |  |            |            |                   |          |          |          |              |      | 101        |              |  | _  |  |              |  | L        | L            | L       |
| 2            |         | П       |   |          | Ι       | Ι        |   |          |          |              |         |            | ]               |          | 52       |          |             |  |  |            |            |                   |          |          | Ш        | L            |      | 102        | ┖            | <u> </u>   | <u>_</u>   |  |              | L.   | L        |              | _       |
| 3            | 1       | П       |   |          | L       |          |   |          |          |              |         | 1          |                 | L.       | 53       |          |             |  |  |            |            |                   |          |          | Ш        | L            | _1   | 103        | L            |  | 乚  |  |              |  | L        | L            |         |
| 4            |         | П       |   |          | Ι       | I        |   |          |          |              | $\perp$ |            | ]               |          | 54       |          |             |  | _  |            |            |                   |          |          | Ц        | ⊢            |      | 104        | ╙            | <u> </u>   |  |  | _            | <u> </u>   | L        | <u> </u>     | _       |
| 5            | -       | Ц       |   | L        | $\perp$ | 4        |   | _        | L        | L            |         | 1_         |                 | <u> </u> | 55       |          | Ь.          |  | _  |            |            |                   |          | _        | Ш        | L            | _    | 105        | _            | _  |  |  |              | _  | ┡        | ╀            | _       |
| 6            | _       | Ц       |   | L        | 1       | _        |   |          | L        | L            | ┶       | ļ          | 1               | <u> </u> | 56       |          | _           |  | _  |            |            |                   |          | Ш        | Н        | -            |      | 106        | ╄-           | <u> </u>   | <u> </u>   |  | _            | ┝  | ļ        | -            | ₩       |
| 7            | -       | Ц       |   | L        | 4       | 4        |   | _        | L        | ┸            | ↓_      | ╄-         | 1               | $\vdash$ | 57       |          |             |  |  | Ш          |            | -                 |          | _        | Н        | L            | _    | 107        | ╀            | ļ  | <u> </u>   | <u> </u>   | _            | ⊢  | ┡        | ╁            | ╀       |
| 8            | -       | Н       |   | 1_       | 1       | 4        |   | _        | L        | ╀            | $\bot$  | ↓          | 4               | <u> </u> | 58       |          | _           | _  | <u> </u>   | lacksquare |            |                   |          | Щ        | Н        | -            | _    | 108        | ╄            | ├  | ⊢  |  | _            | ⊢  | -        | ┼            | ╁-      |
| 9            | -       | Н       |   | <u> </u> | +       | 4        |   | -        |          | ╄            | +       | <u> </u>   | 1               | $\vdash$ | 59       |          |             | -  | -  | -          |            |                   | <u> </u> | -        | -        | -            | _    | 109        | ┼            | $\vdash$   | ⊢  | H  | -            | -  | ⊢        | ╁            | +-      |
| 10           | -       | Ц       |   | ļ        | 4       | 4        |   | _        | _        | ╀            | ┿       | <b>↓</b> — | -               | -        | 60<br>61 |          | _           | _  |  |            |            | _                 |          | -        | Н        | -            |      | 110<br>111 | -            | ├─   | ├  | -  | ⊢            | <del> </del>                                     | ┝        | ╁            | ╁       |
| 11           | щ       | 4       |   | L        | +       | 4        | _ | <u> </u> | L        | ╄-           | +       | 1          | 1               | <u> </u> | 62       |          | _           |  | ⊢  | _          | -          |                   |          | Н        | Н        | -            | _    | 112        | ⊢            | -  | ├─   |  | <del> </del> | ╁╌   | ┝        | ╁            | ╁       |
| 112          |         | Н       |   | ┞        | +       | 4        | _ |          | -        | +-           | +-      | ╀          | 1               | -        | 63       |          |             |  | -  |            | -          |                   | _        | -        |          | ⊢            |      | 113        | +-           | -  | ⊢  | ⊢  | -            | -  | ┝        | ╁            | +       |
| 3 13<br>3 14 |         | Н       |   | ┝        | +       | +        |   | -        | ├        | ╁            | +       | ╀          | 1               | -        | 64       |          |             | -  | ⊢  | -          | -          |                   |          | $\vdash$ | Н        | -            |      | 114        | ╁            | ┼  | ┢  | ╁─   | ┝            | ├  | ╁╴       | ╁            | ╁       |
| 15           | -       | Н       |   | ⊢        | +       | +        |   | -        | H        | ╁            | ┿       | ╁          | ┨               | -        | 65       | -        |             | -  | ┢  | ┝          |            |                   |          |          | Н        | .  -         |      | 115        | ╁            | ╁╌   | ├-   | ┼  | -            | $\vdash$   | H        | ╁            | +       |
| 16           | _       | Н       | _ | ┝        | +       | +        |   | $\vdash$ | H        | ╁            | +       | ╁╴         | ┨               | $\vdash$ | 66       | -        | _           | -  | ⊢  | $\vdash$   | -          | -                 |          | -        | Н        | <br> -       |      | 116        | <del> </del> | 1  | -  | -  | ┢            | $\vdash$   | H        | 1-           | ╅┈      |
| 17           |         | H       |   | ┝        | +       | +        | _ |          |          | +            | 十       | ╁╴         | 1               | -        | 67       | _        |             | -  | -  | -          | Н          | -                 |          | $\vdash$ | Н        | -            |      | 117        | t            | <del> </del>                                     | -  | ┼─   | r'           | $\vdash$   | H        | ╁            | T       |
| 18           | $\perp$ | Н       | - | ┢        | +       | +        |   | ⊢        | ┢        | t            | +       | +          | 1               | -        | 68       | _        |             | ┢  | <del>                                     </del> |            |            | $\vdash$          |          |          | Н        | <u> </u>     |      | 118        | Ħ            | †  | 1  | ┝  |              | ┢  | T        | T            | 1       |
| 19           |         | H       |   | ╁╌       | $^{+}$  | +        |   | -        | ┝        | ╁┈           | ╅       | ╁          | 1               | <b>—</b> | 69       | _        | ┈           | <del>                                     </del> |  | -          |            | -                 |          |          | H        | <u> </u>     | -    | 119        | T            | _  | $t^-$  | 1  |              | T  | T        | 1            | 1       |
| 20           | +       | H       |   | ╁        | ╁       | +        |   | $\vdash$ | ⊢        | ╁            | +       | +          | ┨               |          | 70       | _        | <del></del> | -  | $\vdash$   | $\vdash$   |            |                   |          | H        | Н        | -            |      | 120        | 1            | -  | -  | $\vdash$   | Т            | 一  | T        | †-           | T       |
| 21           | -       | ₩       |   | ⊢        | ┿       | +        |   |          | H        | ╁╌           | ┿       | ╫          | ┨               | -        | 71       |          | ├           |  |  | ├          | H          | H                 | _        | -        | Н        | ⊢            |      | 121        | +-           | ╁╌   | $\vdash$   | ┢  | ┢            | ┼  | ┢        | ╁            | ╁╴      |
| . 22         | _       |         |   | ┝        | ╁       | +        | _ |          | ┝        | ╁            | 十       | ╁╌         | ┨               | -        | 72       |          |             |  | ┢╾   | -          | H          | $\vdash$          | -        | $\vdash$ | Н        | ⊢            |      | 122        | ┿            | ┢  | t  | ┢  | ┢            | ╁  | $\vdash$ | +            | ╁╴      |
| 23           |         | 5       |   | Н        | +       | $\dashv$ |   | -        | ⊢        | +            | +       | +          | 1               | -        | 73       | _        |             | $\vdash$   | -  | -          | -          | -                 |          | H        | Н        | -            | _    | 123        | +            | ┼─   | <del>  -   -   -   -   -   -   -   -   -   -</del> | $\vdash$   |              | ╁  | ┢        | ✝            | T       |
| . 24         |         | 5.1     | _ | ⊢        | +       | +        | - |          | ┪        | ╁            | +       | +          | ┨               |          | 74       |          |             | Н  |  | -          | -          |                   | _        |          | H        | -            | _    | 124        | +            | <del>                                     </del> | 1  | H  |              | <del>                                     </del> | T        | T            | 1       |
| 25           |         | ∜       |   | H        | ╁       | +        |   |          |          | ╁            | +       | ╁╴         | 1               | -        | 75       | _        |             | $\vdash$   | -  | $\vdash$   | <u> </u>   | <u> </u>          |          |          | Н        | -            | _    | 125        | +-           | 1  | 1  | $\vdash$   | T            | _  | T        | t            | 1       |
| 26           | 4       | 11      | _ | H        | +       | +        | _ |          | -        | +-           | +       | +          | 1               |          | 76       | _        | _           | ┢  | H  |            | $\vdash$   | ┢                 |          |          | Н        | 一            | _    | 26         | 1            |  | <del>                                     </del>   | <del>                                     </del> | 1            | $\vdash$   | Т        | †            | T       |
| 27           | _       | Ħ       |   | ┢        | $^{+}$  | +        |   |          | -        | t            | +       | ╁          | 1               |          | 77       | _        |             | $\vdash$   | <del>                                     </del> | -          |            |                   |          |          | Ħ        |              |      | 127        | 1            | T  | Г  | $\vdash$   | Г            | 1  | T        | 1            |         |
| 28           | _       | Ħ       | _ | r        | $^{+}$  | 1        |   |          |          | T            | +       | $\top$     | 1               |          | 78       | _        |             |  | I  |            | T          |                   |          |          | П        |              | _    | 128        | T            |  |  | T  |              |  | Τ        | Ī            | Τ       |
| 29           |         | Н       |   | T        | t       | 7        |   |          | Т        | T            | $\top$  | T          | 1               |          | 79       |          |             |  |  | _          |            | Г                 |          |          | П        |              | ٦    | 29         | 1            | Τ  |  |  |              | П  | Г        | Τ            | Т       |
| 30           | -       | H       |   | Н        | +       | . 1      |   |          | _        | T            | +       | +          | 1               |          | 80       | ,        |             | Г  | Г  |            |            |                   |          |          | П        | Γ            |      | 130        | Τ            |  | Г  | П  |              |  |          |              |         |
| 31           |         | H       |   |          | †       | 7        |   |          |          | T            | Τ       | Τ          | 1               |          | 81       |          |             |  |  |            |            |                   |          |          | П        |              |      | 131        |              |  |  |  |              |  |          |              |         |
| 32           | : 1     | П       |   | Г        | T       | 1        |   |          |          | Т            | 1       | T          | 1               |          | 82       |          |             |  |  |            |            |                   |          |          |          |              |      | 132        | L            |  |  |  |              |  |          |              |         |
| 33           | П       | П       |   |          |         | Ī        |   |          |          |              | Т       | Ī          | ]               |          | 83       |          |             |  |  |            |            |                   |          |          |          |              |      | 133        |              | L.   |  | Ŀ  | L            |  |          | _            | $\perp$ |
| 34           |         | П       |   |          | T       |          |   |          |          |              | Τ.      |            | ]               |          | 84       |          |             | L  |  |            | L_         |                   |          |          | Ш        | L            |      | 134        | L            |  | L  | <u> </u>   | _            | L.   | L        | ┺            | $\perp$ |
| 35           |         |         |   |          |         |          |   |          |          |              |         |            | ]               |          | 85       |          |             | <u>.</u>   | L.,  | L          |            |                   |          | L        | Ш        | L            |      | 135        | _            | L.   | <u>_</u>   | $oxed{oxed}$                                     | _            | ┖  | L        | ┸            | $\perp$ |
| 36           |         | П       |   |          |         |          |   |          | L.       | L            |         | ┖          | ]               |          | 86       |          | L           |  |  |            | _          |                   |          | L.,      | Ш        | L            | _    | 36         | 1            | <u> </u>   | <u> </u>   | _  | ٠            | L_   | L        | ╄            | ـــــ   |
| 37           |         | ¥       |   | L        | $\perp$ |          |   |          | L        | L            | 1       | 上          | ]               |          | 87       |          | <u> </u>    |  | L  | _          | ,          |                   |          | L        | Щ        | L            |      | 137        | 1_           | <u> </u>   | <u> </u>   | <u> </u>   | _            | ┖  | ┞        | 1            | L       |
| 38           | _       | $\perp$ |   | Ŀ        | 1       | _        | _ | L        |          | L            |         | 1          | 1               |          | 88       |          |             |  | L  | L          | _          |                   |          | <u>L</u> | Щ        | _ <u> </u> _ | _    | 38         | ┺            |  | _  | 匚  | _            |  | 1        | ┺            | _       |
| 39           | _       |         |   |          | Ŀ       |          |   | <u></u>  | L        | L            | $\perp$ | ┸          |                 |          | 89       | L        |             |  | L  | <u> </u>   | _          | _                 |          | _        | Щ        | L            | _    | 139        | $\perp$      | _  | $\vdash$   | ļ  | _            | ╙  | ╄        | ↓_           | ╄       |
| 40           | -       |         |   |          | 1       |          |   |          |          | L            | ↓_      |            | 1               |          | 90       |          | <u> </u>    | L  | <u> </u>   |            | <u>L</u> . | <u></u>           |          |          | Ц        | -            |      | 140        |              | <u> </u>   | L  | _  | L            | <u> </u>   | ↓        | ╄            | ╄       |
| 41           | 1       |         |   |          |         |          |   |          | l        |              |         | _          |                 |          | 91       |          |             |  | L  |            |            |                   |          | Ľ        | Ш        | L            |      | 141        |              | L  | 上  |  | L            | ļ  | L        | ┸            |         |
| - 42         |         |         |   |          |         |          |   |          |          |              |         |            |                 |          | 92       |          | L           |  | <u> </u>   | _          |            | L                 | L        | L        | Ш        | L            |      | 142        |              | <u> </u>   | <u> </u>   |  | L            | ļ.,  | L        | $\perp$      | ↓       |
| 43           | _       | I       |   | Ĺ        | $\perp$ | Ţ        |   |          | Ĺ        | L            | $\perp$ | L          | 1               |          | 93       | _        | <u> </u>    | L  | L  |            | <u>_</u>   | _                 | L        | L        | Ш        | L            |      | 143        | 1_           | _  | <u> </u>   | $\vdash$   | $\vdash$     | <u> </u>   | ₽        | $\downarrow$ | ╁_      |
| 44           |         |         |   | Ĺ        | I       | _[       |   |          |          |              |         |            | 1               |          | 94       | _        | <u>_</u>    | L  | _  | _          |            | $ldsymbol{f eta}$ | Ŀ        | L        | Ш        | L            |      | 144        | 4            | $\vdash$   | <u> </u>   | <u> </u>   | <u> </u>     | $\perp$  | L        | $\perp$      | $\perp$ |
| 45           |         | _[      |   | Ĺ        | $\perp$ | _[       |   | L        | L        |              |         | 1          | 1               | <u> </u> | 95       | _        | <u> </u>    | lacksquare                                       | ↓_   | L          | <u> </u>   | _                 | L        | L        | Ц        | L            |      | 45         | $\perp$      | <del> </del>                                     | <b> </b>   | <del> </del>                                     | _            | $\vdash$   | ╀-       | $\perp$      | +-      |
| 46           |         | $\perp$ |   | L        | 4       | 4        |   | <u> </u> | L        | Ļ            | $\perp$ | $\perp$    | 1               |          | 96       | <u> </u> | <u> </u>    | L  | $\vdash$   | <u> </u>   | <b>├</b>   | _                 |          | $\vdash$ | Н        | $\vdash$     |      | 46         | ╂            | ⊢  | ــــ   | <b>!</b>   | L            | $\vdash$   | ╄        | +            | +       |
| 47           |         | _       |   | L        | $\perp$ | _        |   | <u> </u> | L        | L            | $\perp$ | ╀-         | 1               | <u> </u> | 97       |          | L           | <u> </u>   |  | _          | ⊢          | <u> </u>          | _        | $\vdash$ | Ш        | $\vdash$     |      | 147        | <b>-</b>     |  | ├-   |  | $\vdash$     | 1  | ₽        | +            | +-      |
| 48           |         | 4       |   | L        | 1       | 4        |   | $\vdash$ | <u> </u> | $\perp$      | 4-      | 4-         | 4               | $\vdash$ | 98       | _        | L           | L  | ├-   | ⊢          | $\vdash$   | <del> </del>      | $\vdash$ | $\vdash$ | $\sqcup$ | ⊢            |      | 148        | ╁            | +  | ⊢  | $\vdash$   | -            | +  | ╁        | +-           | +       |
| 49           |         | 4       |   | ⊢        | $\perp$ | 4        |   | $\vdash$ | ┞-       | $\perp$      | 4-      | 4          | 4               |          | 99       |          | ⊢           | ⊢  | -  | $\vdash$   | $\vdash$   |                   | $\vdash$ | ├-       | ⊢⊦       | ⊢            | 4    | 149<br>150 | +-           | ⊢  | ⊢  | $\vdash$   | $\vdash$     | +-   | ╁        | +            | ┿       |
| 50           | 1       |         | _ | 乚        | ⊥       | _        |   | Щ        | _        | L            |         |            | J               | L        | 100      | <u> </u> |             | <u>L</u> .                                       | ┺-   | Ц.         | <u> </u>   | L                 | 1        | L        | L        | ᆫ            |      | ıou        |              | ١  | ــــــــــــــــــــــــــــــــــــــ             | <u> </u>   |              |  | 1_       |              |         |

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